

ABSTRACT

An electric field generated by another electric field communications apparatus reaches electric field sensor ES. Electric field sensor ES outputs an electric signal in response to the changes in the electric field. The electric field that reaches electric field sensor ES enters a return path of the electric field communications apparatus that is a source of the electric field. By locating electric field sensor ES between receiver main electrode ERB and receiver return electrode ERG, electric field intensity at the location where electric field sensor ES is positioned. Therefore, sensitivity of the changes in electric field for electric field communications apparatus TRX can be improved.